

Title (en)

NYQUIST FOLDED BANDPASS SAMPLING RECEIVERS AND RELATED METHODS

Title (de)

NYQUIST-ABTASTEMPFAINGER MIT GEFALTETEM BANDPASS UND ENTSPRECHENDE VERFAHREN

Title (fr)

RECEPTEURS A ECHANTILLONNAGE DE BANDE PASSANTE REPLIEE NYQUIST ET PROCEDES ASSOCIES

Publication

**EP 1935156 B1 20120222 (EN)**

Application

**EP 06816596 A 20061010**

Priority

- US 2006039506 W 20061010
- US 24731405 A 20051011
- US 24733805 A 20051011

Abstract (en)

[origin: US2007081578A1] Nyquist folded bandpass sampling receivers are disclosed that utilize narrow band filters in parallel with wideband filters to enhance reception of ultra wideband (UWB) pulses. The addition of the narrow band filter facilitates the reception of ultra wideband signal pulses and, therefore, extends the Nyquist folding bandpass sampling receiver to allow improved processing of ultra wideband (UWB) pulses. RF sampling circuitry utilizing a modulated sampling clock signal can then better capture UWB pulse signals.

IPC 8 full level

**H03M 1/12** (2006.01); **H04B 1/10** (2006.01); **H04B 1/69** (2011.01); **H04L 27/00** (2006.01)

CPC (source: EP US)

**H04B 1/0003** (2013.01 - EP US); **H04B 1/406** (2013.01 - EP US); **H04B 1/71637** (2013.01 - EP US); **H03M 1/12** (2013.01 - EP US)

Cited by

WO2023041176A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 2007081578 A1 20070412**; **US 7436911 B2 20081014**; AU 2006304057 A1 20070426; AU 2006304057 B2 20100902; EP 1935156 A2 20080625; EP 1935156 A4 20110126; EP 1935156 B1 20120222; US 2007086544 A1 20070419; US 2008013653 A1 20080117; US 7436910 B2 20081014; US 7436912 B2 20081014; WO 2007044749 A2 20070419; WO 2007044749 A3 20070531; WO 2007047248 A2 20070426; WO 2007047248 A3 20071213

DOCDB simple family (application)

**US 54564106 A 20061010**; AU 2006304057 A 20061010; EP 06816596 A 20061010; US 2006039506 W 20061010; US 2006039615 W 20061010; US 54531006 A 20061010; US 54564206 A 20061010